

Title (en)
PRECIOUS METAL COLLOID, PRECIOUS METAL MICROPARTICLE, COMPOSITION AND PROCESS FOR PRODUCING THE PRECIOUS METAL MICROPARTICLE

Title (de)
EDELMETALLKOLLOID, EDELMETALLMIKROTEILCHEN, ZUSAMMENSETZUNG UND VERFAHREN ZUR HERSTELLUNG DES EDELMETALLMIKROTEILCHENS

Title (fr)
COLLOIDE DE METAL PRECIEUX, MICROPARTICULE DE METAL PRECIEUX, COMPOSITION ET PROCEDE DE PRODUCTION D'UNE MICROPARTICULE DE METAL PRECIEUX

Publication
EP 1666177 A1 20060607 (EN)

Application
EP 04746532 A 20040621

Priority
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• JP 2003432661 A 20031226

Abstract (en)
To provide a precious metal colloid enabling a production in simply and in low cost, a long-term storage, and a formation of a thin film having a high conductivity, a precious metal fine-particle, a composition including the same, and a method for producing a precious metal fine-particle for forming such precious metal colloid, which is a precious metal colloid in which a protection component protects a precious metal fine-particle selected from gold, silver, platinum, and palladium, a precious metal colloid in which the maximum peak of ¹³C-NMR spectrum of the protection component separated from the precious metal colloid by ultracentrifugation treatment presents in 160 to 190 ppm other than peaks of a primary carbon and an aromatic carbon, or a precious metal colloid in which peaks of ¹³C-NMR spectrum present in 20 to 90 ppm and 160 to 190 ppm. A reduction agent, such as a peptide or other amino acid compound and glucosamine, and alkali for supporting a reductivity of the reduction agent are added to a solution dissolving a precious metal containing compound to form the precious metal fine-particle by a reduction reaction of a precious metal ion in the precious metal containing compound.

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